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Listing of Claims:

Claim 1 (previously presented) A lightweight heat resistant and insulative composite product sheet, containing glass fibers, consisting essentially of:

- a) homogenized glass fiber and binder material forming a first layer,
- b) binder material extending in a second layer adjacent the first layer and bonded thereto,
- c) woven glass fiber facing cloth extending in a third layer adjacent the second layer and bonded thereto so that the second layer is sandwiched between the first and third layers,
- d) binder material in the layers being cured, to integrate the layers, and
- e) the bulk of the fibers in said first layer having diameters between .00003 and .00015 inch.

Claim 2 (original) The composite sheet of claim 1 wherein the first layer has a wool-like composition.

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Claim 3 (previously presented) The composite sheet of claim 1 wherein the first layer has a density of about  $3/4$  pound per sheet cubic foot, the product sheet having between about 0.75 and 4.0 inch thickness and from 0.5 to 4.0 pounds per cubic foot density.

Claim 4 (original) The composite sheet of claim 1 wherein said second layer binder has a sprayed on and cured in situ configuration adjacent the first layer.

Claim 5 (original) The composite sheet of claim 1 wherein the bulk of the glass fibers in said first layer have length between about 1 and 2 microns.

Claim 6 (previously presented) The composite of claim 1 wherein the first layer consists of about 80% by weight of glass fibers and about 20% by weight of binder, said fibers and binder being homogenized.

Claim 7 (original) The composite sheet of claim 1 wherein said first layer has a wool-like consistency, and a density between 0.5 and 4.0 pounds per cubic foot.

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Claim 8 (previously presented) A lightweight heat resistant and insulative composite product sheet, containing glass fibers, consisting essentially of:

- a) homogenized glass fiber and binder material forming a first layer,
- b) binder material extending in a second layer adjacent the first layer and bonded thereto,
- c) woven glass fiber facing cloth extending in a third layer adjacent the second layer and bonded thereto so that the second layer is sandwiched between the first and third layers,
- d) binder material in the layers being cured, to integrate the layers,
- e) said first layer having a wool-like consistency,
- f) and wherein first layer density is about 0.75 pounds per cubic foot.

Claim 9 (original) The composite sheet of claim 1 wherein the facer cloth has a binder content of less than 10% by weight of said cloth, and is adherent to a surface of the second layer, so that the second layer is sandwiched between and integrates the first and third layers.

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Claim 10 (previously presented) A lightweight heat resistant and insulative composite product sheet, containing glass fibers, consisting essentially of:

- a) homogenized glass fiber and binder material forming a first layer,
- b) binder material extending in a second layer adjacent the first layer and bonded thereto,
- c) woven glass fiber facing cloth extending in a third layer adjacent the second layer and bonded thereto so that the second layer is sandwiched between the first and third layers,
- d) binder material in the layers being cured, to integrate the layers,
- e) said facer cloth having a binder content of less than 10% by weight of said cloth, and is adherent to a surface of the second layer, so that the second layer is sandwiched between and integrates the first and third layers,
- f) and wherein the facer cloth has weight between 20 and 60 grams per square foot, and consists of woven glass fibers.

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Claim 11 (previously presented) The composite sheet of claim 12 wherein the glass fibers in the first layer have diameters between .00003 and .00015 inch.

Claim 12 (previously presented) A lightweight heat resistant and insulative composite product sheet, containing glass fibers, consisting essentially of:

- a) homogenized glass fiber and binder material forming a first layer,
- b) binder material extending in a second layer adjacent the first layer and bonded thereto,
- c) woven glass fiber facing cloth extending in a third layer adjacent the second layer and bonded thereto so that the second layer is sandwiched between the first and third layers,
- d) binder material in the layers being cured, to integrate the layers,
- e) said sheet having density of from 0.5 to 4.0 pounds per cubic foot.

Claim 13 (original) The composite sheet of claim 1 which has between 0.25 and 4.0 inch thickness.

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Claim 14 (original) The method which comprises:

- i. forming a composite sheet as defined in claim 1,
- ii. and including drying and curing said sheet, at elevated temperature, while being transported.

Claim 15 (presently presented) The method of forming a lightweight heat resistant and insulative composite product sheet, containing glass fibers, consisting essentially of:

- a) homogenized glass fiber and binder material forming a first layer,
- b) binder material extending in a second layer adjacent the first layer and bonded thereto,
- c) woven glass fiber facing cloth extending in a third layer adjacent the second layer and bonded thereto so that the second layer is sandwiched between the first and third layers,
- d) binder material in the layers being cured, to integrate the layers, and said method including drying and curing said sheet, at elevated temperature, while being transported, and wherein said elevated temperature is between about 425°F and 475°F.

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Claim 16 (previously presented) The method of forming a lightweight heat resistant and insulative composite product sheet, containing glass fibers, consisting essentially of:

- a) homogenized glass fiber and binder material forming a first layer,
- b) binder material extending in a second layer adjacent the first layer and bonded thereto,
- c) woven glass fiber facing cloth extending in a third layer adjacent the second layer and bonded thereto so that the second layer is sandwiched between the first and third layers,
- d) binder material in the layers being cured, to integrate the layers, and said method including drying and curing said sheet, at elevated temperature, while being transported, said drying and curing at elevated temperature being completed during a time interval between 2 and 4 minutes.

Claim 17 (previously presented) The method of forming a lightweight heat resistant and insulative composite product sheet, containing glass fibers, consisting essentially of:

- a) homogenized glass fiber and binder material forming a first layer,

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- b) binder material extending in a second layer adjacent the first layer and bonded thereto,
- c) woven glass fiber facing cloth extending in a third layer adjacent the second layer and bonded thereto so that the second layer is sandwiched between the first and third layers,
- d) binder material in the layers being cured, to integrate the layers, and
- e) said method including drying and curing said sheet, as elevated temperature, while being transported, and said method including spraying said binder onto an irregular upper surface of said first layer.

Claim 18 (previously presented) The method of forming a lightweight heat resistant and insulative composite product sheet, containing glass fibers, consisting essentially of:

- a) homogenized glass fiber and binder material forming a first layer,
- b) binder material extending in a second layer adjacent the first layer and bonded thereto,
- c) woven glass fiber facing cloth extending in a third layer adjacent the second layer and bonded thereto so



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that the second layer is sandwiched between the first and third layers,

d) binder material in the layers being cured, to integrate the layers, and

e) said method including drying and curing said sheet, at elevated temperature, while being transported, and wherein the binder consists of synthetic resin.

Claim 19 (original) The method of claim 18 wherein said resin consists of phenol formaldehyde.

Claim 20 (previously presented) The method of forming a lightweight heat resistant and insulative composite product sheet, containing glass fibers, consisting essentially of:

a) homogenized glass fiber and binder material forming a first layer,

b) binder material extending in a second layer adjacent the first layer and bonded thereto,

c) woven glass fiber facing cloth extending in a third layer adjacent the second layer and bonded thereto so that the second layer is sandwiched between the first and third layers,

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d) binder material in the layers being cured, to integrate the layers, and said method including drying and curing said sheet, as elevated temperature, while being transported, and including progressively feeding said facing cloth onto said sprayed on binder layer just prior to said step ii) of claim 14.

Claim 21 (previously presented) The method of forming a lightweight heat resistant and insulative composite product sheet, containing glass fibers, consisting essentially of:

- a) homogenized glass fiber and binder material forming a first layer,
- b) binder material extending in a second layer adjacent the first layer and bonded thereto,
- c) woven glass fiber facing cloth extending in a third layer adjacent the second layer and bonded thereto so that the second layer is sandwiched between the first and third layers,
- d) binder material in the layers being cured, to integrate the layers, and
- e) said method including drying and curing said sheet, as elevated temperature, while being transported, and wherein the binder material consists of synthetic resin.

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Claim 22 (previously presented) The method of claim 21 wherein the binder material consists of phenol formaldehyde.

Claim 23 (previously presented) The assembly which comprises a metallic panel, fasteners projecting from the panel, and the product sheet applied to the panel to form a facing, with the fasteners projecting through the product sheet, said product being a lightweight, heat resistant and insulative composite product sheet, containing glass fibers, consisting essentially of:

- a) homogenized glass fibers and binder material forming a first layer,
- b) binder material extending in a second layer adjacent the first layer and bonded thereto,
- c) woven glass fiber facing cloth extending in a third layer adjacent the second layer and bonded thereto so that the second layer is sandwiched between the first and third layers,
- d) binder material in the layers being cured, to integrate the layers.

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Claim 24 (previously presented) The assembly of claim 23 including holders on the fasteners to hold the product sheet against the panel.

Claim 25 (original) The assembly of claim 24 wherein the fasteners comprise studs, and the holders comprise washers received on the studs, and caps frictionally retained on the ends of the studs to hold the washers in position.